What is claimed is:

1. An optical receiver, comprising:

an optical input port which receives incoming wavelength-division multiplexed (WDM) light signals;

transmittable-wavelength-variable filtering means which allows or permits, of the WDM light signals input from said optical input port, a light signal in a predetermined transmittable wavelength bandwidth to pass therethrough, a central wavelength of said transmittable wavelength bandwidth being a desired wavelength;

an optical output port which outputs, of the WDM light signals input from said optical input port, the remaining light signals at wavelengths which do not pass through said transmittable-wavelength-variable filtering means; and

control means which controls the central wavelength of said transmittable-wavelength-variable filtering means in such a manner that the level of the light signal passing through said transmittable-wavelength-variable filtering means is the maximum.

2. An optical receiver as set forth in claim 1, wherein said transmittable wavelength bandwidth which passes through said transmittable-wavelength-variable filtering means is narrower than channel spacing of the WDM signals.

3. An optical receiver as set forth in claim 2, wherein said transmittable-wavelength-variable filtering means has a reflective member for reflecting the remaining light signals at wavelengths which do not pass through said transmittable-wavelength-variable filtering means to said optical output port.

4. An optical receiver as set forth in claim 1, wherein said transmittable-wavelength-variable filtering means has a reflective member for reflecting the remaining light signals at wavelengths which do not pass through said transmittable-wavelength-variable filtering means to said optical output port.

5. An optical transmission apparatus, comprising *N* optical receivers, *N* being an integer number greater than 2, each of which receivers includes: an optical input port which receives incoming wavelength-division multiplexed (WDM) light signals; transmittable-wavelength-variable filtering means which allows or permits, of the WDM light signals input from said optical input port, a light signal in a predetermined transmittable wavelength bandwidth to pass therethrough, a central wavelength of said transmittable wavelength bandwidth being a desired wavelength; an optical output port which outputs, of the WDM light signals input from

said optical input port, the remaining light signals at wavelengths which do not pass through said transmittable-wavelength-variable filtering means; and control means which controls the central wavelength of said transmittable-wavelength-variable filtering means in such a manner that the level of the light signal passing through said transmittable-wavelength-variable filtering means is the maximum,

the optical output port of the ith (i = 1 to N-1) of said optical receivers being connected to the optical input port of the (i+1)th of said optical receivers.

6. An optical receiver as set forth in claim 5, wherein said transmittable wavelength bandwidth which passes through said transmittable-wavelength-variable filtering means is narrower than channel spacing of the WDM signals.

7. An optical receiver as set forth in claim 6, wherein said transmittable-wavelength-variable filtering means has a reflective member for reflecting the remaining light signals at wavelengths which do not pass through said transmittable-wavelength-variable filtering means to said optical output port.

8. An optical receiver as set forth in claim 5, wherein said transmittable-wavelength-variable

filtering means has a reflective member for reflecting the remaining light signals at wavelengths which do not pass through said transmittable-wavelength-variable filtering means to said optical output port.

9. An optical transmission apparatus as set forth in claim 5, wherein an optical amplifier for amplifying the incoming WDM signals is connected to the first of said optical receivers.

10. An optical transmission apparatus as set forth in claim 9, wherein at least one optical amplifier is interposed between two or more of said optical receivers.

11. An optical transmission apparatus as set forth in claim 5, wherein at least one optical amplifier is interposed between two or more of said optical receivers.

12. An optical receiver for receiving a light signal at an individual wavelength, which is obtained by optically amplifying incoming wavelength-division multiplexed (WDM) signals and then demultiplexing the WDM signals into individual wavelengths, said optical receiver comprising:

transmittable-wavelength-variable filtering means which allows or permits a light signal in a given transmittable wavelength bandwidth to pass therethrough, said given transmittable wavelength bandwidth being

narrower than channel spacing of the WDM signals; and

control means which controls a central wavelength of said transmittable-wavelength-variable filtering means in such a manner that the level of the light signal passing through said transmittable-wavelength-variable filtering means is the maximum.

13. An optical transmission apparatus, comprising:

an optical amplifier for amplifying wavelength-division multiplexed (WDM) signals;

an optical demultiplexer for demultiplexing the WDM signals received from said optical amplifier into light signals at separate wavelengths; and

an optical receiver for receiving an individual one of the separate wavelengths,

said optical receiver including:

transmittable-wavelength-variable filtering means which allows or permits a light signal in a given transmittable wavelength bandwidth to pass therethrough, said given transmittable wavelength bandwidth being narrower than channel spacing of the WDM signals; and

control means which controls a central wavelength of said transmittable-wavelength-variable filtering means in such a manner that the level of the light signal passing through said

transmittable-wavelength-variable filtering means is the maximum.